

Effect of Moisture Deficiency on the Processes
of Collision and Coalescence of Water Drops,
by P. S. Prokhorov, L. F. Leonov, 9 pp.

Full translation.

Feb

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Jan - Feb 1952, pp 66.

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Consultants Bureau
152 West 42 Street
New York 18, N.Y.

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A Diffusion Hygrometer, by K. B. V. Deriagin,
P. S. Prokhorov, G. A. Batova, L. F. Leonov, 9 pp.

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No 47, 1962, pp 5-20, 100007066
AFCL T-R-507

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TT-65-63643

Field 20K

Leonov, M. Y.; Panasyuk, V. V.
THE DEVELOPMENT OF VERY FINE CRACKS IN A SOLID
BODY (Rozvitok Naldrimishlkh Trishchln v Tverdomu Tili).
Tr. by J. W. Palmer. Sep 64, 19p, 7 refs.
RAE-Lib-Trans-1077.
Order from CFSTI, SLA, or ETC: HC\$1.60, MF\$0.50 as
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Trans. of Prikladna Mekhanika (USSR) v5 n4 p391-401 1959.

I. Royal Aircraft
Establishment,
Farnborough (England)

1. The following is a photo composite of
a man, 5' 10" tall, 170 lbs., brown hair,
brown eyes, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 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DESCRIPTORS: Brittleness, *Fracture (Mechanics),
Solids, Models (Simulations), Propagation, Mathe-
matical analysis.

The effect of a linear dislocation on the resistance to
fracture is investigated for a simplified model of a
brittle body. The result is compared with deductions
from work with a different model of a brittle body. The
solution of Griffith's problem is checked. (Author)

TT-63-24151

- I. Leonov, M. Ya.
- II. Onyshko, L. V.
- III. SMRE Trans-4785
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Load distribution, Mathematical analysis, *Rupture,
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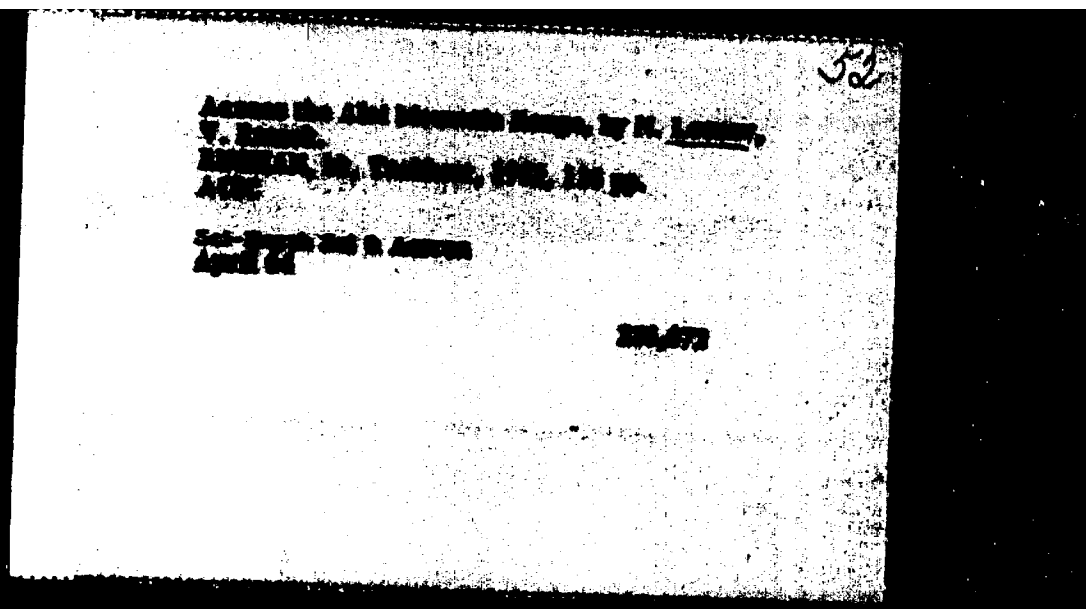
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